

Batulin, G. I. and Tkachenko, M. S.
ON THE QUESTION OF NITRIDING OF MANGANESE
[1963] 6p Sreia
Order from OTS or SLA \$1.10 63-20130

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii.
(Chernaya Metallurgiya) (USSR) 1962, no. 11, p. 76-79.

DESCRIPTORS: *Manganese, *Hardening, Particle
size, Ammonia, Reaction kinetics, Metallography.
Phase studies.

Investigation of the influence of manganese metal par-
ticle size, temperature and feed gas velocity on the
course of the nitriding process in a stream of ammonia
has shown that feed gas velocity, under conditions of
these tests, has no effect on the reaction rate. A re-
lation between manganese particle size and the gain in
charge weight was developed. It was shown that the
(Metallurgy--Nonferrous Metals, TT, v. 10, no. 12)
(over)

63-20130

I. Title: Nitriding
I. Batulin, G. I.
II. Tkachenko, M. S.

Office of Technical Services

Study of Cooling of Wire Rod From Continuous
Rolling Mill, by V. I. Gubinskiy

RUSSIAN, per, Iz Vysshikh Ucheb Zaved Chern Metal,
No 11, 1962, pp 128-132.

HB 5835

Sci - Engr
Mar 63

326,469

Special Features in the Manufacture of Thin Walled Tubes
of Cold Reducing Machines, by Yu. F. Shevakin,
F. S. Seidaliyev.

^{not}
RUSSIAN, per, Izvest VUZ Chern Met, 1962, pp 133-139.

BIFI 3257

Sci - M/M
Sept 63

345,128

Residual Stresses in Surface of Steels Impreg.
With Various Alloying Elements by G. N. Dubinin,
L. Gribosvskiy.

RUSSIAN, per, Iz Vysishikh Ucheb Zaved Chern Metall.
No 11, 1962, pp 170-174.

HB 5836

Sci - M/M, Engr
Mar 63

226,670

Study of Physico-Chemistry of the Ternary
 $\text{Cr}_2\text{O}_3\text{-ZrO}_2\text{-SiO}_2$ System, by V. F. Smachnaya.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved Chern Metal,
No 11, 1962, pp 191-195.

HB 5837

Sci - Chem, Phys
Mar 63

226671

Comparative Analysis of the Technical-Economic
Indices of Open-Hearth Plants With 500- and
250-M. Ton Furnaces, by V. A. Romenets, Yu E
Tuntov.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved Chern Metal,
No 11, 1962, pp 202-208.

HB 5354

Sci - Engr
Mar 63

226,664

Hold-Up of Molten ~~XXXXXXXX~~ Materials in the
Blast-Furnace Stock Column, by A. S. Kukarin,
B. I. Kitayev.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved Chern Met,
No 12, 1962, pp 20-28.

HB 5882

Sci-Engr

Nov 63

243,455

Investigation of Gas Flow in the Blast Furnace with
the Use of Helium, by I. A. Kopyrin et al.

RUSSIAN, Iz Vysishikh Ucheb Zaved, Chern. Metal.,
No 12, 1962, pp 29-40

HB 5879

Mat & Met
Oct 63

345,155

Special Features of the Structure of the Bath of
a Rotary Ferrosilicon Furnace, by I. T. Zherdev,
et al.

RUSSIAN, per, Iz Vysishikh Ucheb Zaved, Chern.
Metal., No 12, 1962, pp 61-66.

HB 5819

Met & Met
Oct 63

345, 156

On the Effect of Phosphorus Upon the Temper
Brittleness of Steel, by V. N. Svechnikov,
S. S. Golubev.

RUSSIAN, per, Iz Vyssh Ucheb Zaved Chern
Met., No 12, 1963, pp 117-119.

HB 5871

Sci-MAM
May 63

229,831

Structural Characteristics of High-
hardness Twin-Layer Rolls From Chromium-
Nickel Cast Iron, by A. B. Krivosheev,
Y. N. Taran.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Chern
Met, Vol V, No 12, 1962, pp 151-157.

N

NLL Ref. 5828.4 1963 (5,379)
(Loan)

Sci - M/M
Nov 63

242,271

THE MECHANISM OF CRYSTALLIZATION OF RIMMING STEEL
DURING CONTINUOUS CASTING, BY V. B. GANKIN,
G. N. OYKS, 12 PP.

RUSSIAN, PER, IZ VYSSHIKH UCHEB ZAVED, CHERNAYA
METALLURGIYA, NO 1, 1963, PP 34-41.

JPRS 18710

SCI - MAT-MET

APR 63

228,383

DEVELOPMENT OF IMPROVED DESIGNS OF NOZZLES AND
STOPPED HEADS FOR ~~XXXXM~~ CONTINUOUS CASTING OF
STEEL, BY YE. I. ISAYEV, I. T. KUSHNAREV, 8 PP

RUSSIAN, PER, IZ VYSSHIKH UCHEB ZAVED, CHERNAYA
METALLURGIYA, NO 1, 1963, PP 42-48.

JPRS 18710

SCI - MAT-MET

48 5909

APR 63

228,354

Effect of Some Elements on the Seizing of Steel
During Hot Working, by G. I. Bel'chenko,
A. A. Baranov.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved Chernaya
Metallurgiya, 1963, pp 97-105.

*HB 5911

Sci - M/M
May 63

Microdefects in Diffusion Layers on Alloys
of Iron, by M. A. Krishtal.

RUSSIAN, per, ~~XXI~~Invest VUZ, Chern Met, No 1,
1963, pp 111-116.

HB 5912

Sci-M/M
Jan 64

246, 337

Transformation of Supercooled Austenite in
Steels with Various Degrees of Alloying,
by M. P. Brown, et al.

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RUSSIAN, per, Int. J. Chern. Met., Vol 1,
1963, pp 128-135.

RISI 5633

Sci-Materials

Oct 67

343,132

On the Best Way of Calculating the Heat Absorption
by the Open-Hearth Bath, by V. Yu. Kaganov, et al.
RUSSIAN, per, Iz Vyysh Uchebn Zaved, Chern Met,
No 1, 1963, pp 194-200.
HB 6208

Sci-M & M
June 64

261,781

Determination of the Porosity of a Loose Assembly
of Spheroidal Particles from its Structure,
by G. M. Platonov

RUSSIAN, per, IVUZ, Chem Met., Vol 11, No 2,
1963, pp.

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Sci/Mater
Jun 69

On the Work Performed by the Gas Stream in the
Upper Part of the BF Stack With Natural Gas
Added to Blast, by Yu. M. Potebnya, V. I. Litvinenko.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved Chern Met,
No 2, 1963, pp 23-30.

HB 5896

Sci-H/M

243,933

Dec 63

Study of the Sources of Pulsations in Hot-Blast Pressure at the Blast-Furnace Tuyeres, by A. A. Kukarkin, B. I. ~~KIKIN~~Kitayev.

RUSSIAN, per, Iz Vyssh Ucheb Zavod Chern Met, No 2, 1963, pp 31-38.

HB 5897

Sci-M/M

Aug 63

343,504

The Reducing Stage in the Electric Melting of
Stainless Steels, by E. I. Madinov, S. I. Khitrik.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Chern. Met.,
No 2, 1963, pp 68-76.

HB 5899

Mat & Met
Oct 63

345,165
5719

On the Problem of the Nature of the
Hardening of Austenite Steels, by
V. I. Grigorkin, 14 pp.
RUSSIAN, per, Iz Vyssh Uchen Zaved,
Chem Metall, No 2, 1963, pp 95-103.

0696588

FTT-TT-64-705

Sci - M/H
Apr 65

278,323

Metallic Surface Impregnation of Steel ~~REXKXKXKX~~
Followed by Nitriding, by Yu. V. Grdina,
A. P. Sofroshenko.

RUSSIAN, per, Iz Vyssh Ucheb Zavod Chern Met
No 2, 1963, pp 115-119.

HB 5901

Sci-Mat & Met
July 63

235795

Conditions of Flake Formation in Steel, by
D. Ya. RYKOPovolotskiy.

RUSSIAN, per, Iz Vyssh Ucheb Zaved Chern Met,
1963, No 2, pp 120-128.

HB 5657

Sci-M/M

Aug 63

343,509

Development of Precision-Hardening
Cutting-Tool Compositions, by N. A. Nestorov,
Yu. V. Grdina.

RUSSIAN, per, Iz Vyssh Ucheb Zavod Chern Met,
No 2, 1963, pp 129-132.

HB 5898

Sci-Materials & metallurgy
July 63

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Distribution of Oxygen Between Metal and
Slag During Steel-Melting Processes,
by A. I. Stroganov.
RUSSIAN, per, Iz VUZ, Chern Met, No 3,
1963, pp 46-52.
DISI 3872

Sci-M/H
Apr 65

278,681.

BEHAVIOR of the Components of Stainless Steel
During Vacuum Melting, by B. V. Linchevskiy.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved Chern
Met, No 3, 1963, pp 70-76.

HB 5553

Sci-M/M

243,591

Nov 63

Effect of Hydrogen on the Process of
Enamelling Steel, by E. I. Litvinova.
RUSSIAN, per, Izv VUZ-Chern Met, No 3,
1963, pp 163-170.
BISI 4358

Sci-11/11
Oct 65

290,209

Study of the Technical and Economic ~~CHARACTERISTICS~~
Characteristics of Stainless Steel Production
by V. A. Romanets, N. P. Barnyi, et al.

RUSSIAN, per, Iz Vyssh Ucheb Zaved Chern Met
No 3, 1963, pp 197-205.

HB 5168

Sci-Materials & Metallurgy
July 63

235,802

On a Standard Method of Determining the
Reducibility of Iron-Ore Sinters, by V. I. Korotich.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved Chern Met,
No 4, 1963, pp 20-26.

HB 5955

Sci-M/M

Nov 63

243,458

Influence of Various Factors on the Oxidizing
Zone of a Blast Furnace, by L. A. Byalyi,
I. A. Kopyrin, et al.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved Chem
Met, No 4, 1963, pp 27-33.

HB 5956

Sci-Engr

Dec 63

243,447

On the Rational Distribution of Draughts Among
the Passes During Rolling on Reversing Mills,
by N. I. Dainov
RUSSIAN, per. ¹⁹⁶³ Izv. VUZ Chern. Met., No. 4, pp 76-82
BISI 7337

Sci/Mat
Mar 70

403,933

Relaxation Resistance of 13-9 Ti Steel Wiro,
by V. Ya. Zubov, I. A. Krasil'nikov,

RUSSIAN, per; Iz Vyssh Ucheb Zavod Chern Met.,
No 4, 1963, pp 109-114.

HB 5957

Sci-Materials & Metallurgy
July 63

235, 643

The use of the electro-integrator EI-12 for
solving the two-dimensional transient problems
of heat conduction theory, by M. Y. Taita, et al
RUSSIAN, per, Izvestiya VUZ Chernaya Metallurgiya,
1963, No 4, pp 156-162
NII RIB 3317
(ON LOAN OR PURCHASE)

Sci - Phys
May 67

325,860

Kinetics of the Reduction of Fluxed Sinter
With Solid Carbon, by P. N. Ostrik,
S. T. Rostovtsev.

RUSSIAN, per. Iz Vysshikh Ucheb Zaved Chern
Met, No 5, 1963, pp 19-25.

~~243,932~~

HB 5982

Sci-Engr

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IMBT Fluid-Bed Reduction Process for Metal Oxides, by N. S. Vavilov.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved Chern
Met, No 5, 1963, pp 26-33.

HB 5983

Sci-H/14

243,493

Nov 63

Determination of the Activity of Oxygen in
Iron-Carbon-Oxygen Melts Using the E.D.C. Method,
by V. P. Lugin, A. P. Vishkarev.

RUSSIAN, per, Is Vyssh Ucheb Zaved Chem Met,
Vol V, 1963, pp 44-50.

BISI 3350

Sci - Chem
Sept 63

345,144

Study of the Basic Oxygen Process When Using
Various Coolants, by V. V. Smiktiy.

RUSSIAN, per, Iz Vyssh Ucheb Zaved Chem Met,
No 5, 1963, pp 58-64.

HB 5985

Sci-Engr

243,492

Nov 63

Deoxidizing Capacity of the Rare-Earth Metals
Lanthanum, Cerium, Praseodymium and Neodymium
by G. Kinne, A. P. Vishkarev, V. I. Yavolskiy.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved Chern
Met, No 5, 1963, pp 65-69.

HB 5984

Sci-M/M

Nov 63

243,495

Calculation of the Strength and Rigidity
of Rolling Mill Rolls, by Ya. S. Shain.
RUSSIAN, per, Izv. VUZ-Chern. Met.
No 5, 1963, pp 81-89.
EISI 4367

Sci/MQM
Oct 65

290,497

Effect of Lubrication the Texture of Rolled
Metal, by N. I. Varich.
RUSSIAN, per, Iz Vysakhkh Uchsh Zaved Chern
Metal, No 5, 1963, pp 151-155.
HB 6297

Sci - Engr
Nov 64

268,2495

The Structure of Boronized Layers, by A. E.
Minkovitch.

RUSSIAN, per, Levent VUZ, Chern Met, No 5,
1963, pp 152-169.

HB 5985

Sci-Eng
Jan 64

246,336

State Characteristics of Liquid Metals, by
L. A. Pronin, et al.
RUSSIAN, per, Izvestiya VUZ, Chernaya Metallurgiya,
No 6(11), 1963, pp 11-16.
*FTD-HT-23-1301-67

Sci/Materials
Sep 67

Analysis of Heat Transfer Processes During Sintering
by the Method of Suction, by S. G. Bratchikov,
S. V. Bazilevich, et al.
RUSSIAN, per, Iz Vysishikh Ucheb Zaved Chern Metal,
No 6, 1963, pp 18-26.
BISI 3671

Sci-M/M
Feb 65

272,174

Change in the Mineralogical Composition of Sinter
in the Course of Its Reduction, by B. A. Livshits.
RUSSIAN, per, Iz Vysshikh Ucheb Zaved Chern Met,
No 6, 1963, pp 27-31.
BISI 3599

Sci - M/M
Apr 64

253,289

Change in Frictional Forces in a Bed of Granular Materials
as Affected by the Speed of a Gas Passing Through It, by
P. N. Grekov, V. K. Gruzinov, et al.
RUSSIAN, per, Iz Vysokikh Ucheb Zaved Chern Met, No 6,
1963, pp 32-34.

HB 6010

Sci - M/M

Mar 64

250,795

Ladle Treatment of Steel With Synthetic Titaniferous
Slag, by N. I. Birukov.

RUSSIAN, per, Vysishikh Ucheb Zavod, Chern. Metal,
No 6, 1963, pp 43-48.

Oct 63

HB 601A

Mat & Met

Oct 63 43

345, 150

Production of Extra Heavy Plate of Semi-Killed Steel,
by ~~E. I. Kadimov, S. I. Isitov~~ *U.S. Kazantsev*

RUSSIAN, per, IX Vysshikh Ucheb Zaved, Chern. Met.,
No 6, 1963, pp 49-50.

HB 6015

Met & Met

Oct 63

345, 182

Kinetics of Hydrogen Removal in the Vacuum Treatment of Liquid Steel, by E. S. Levin, K. T. Kurochkin, et al.

RUSSIAN, per, Iz Vsesoyuznogo Nauchno-Issledovatskogo Tsentra Chern. Metal., No 6, 1963, pp 58-67.

HB 600x 6013

Mat 3 Oct 63

345,161

Causes of the Formation of "Rolled-In" Scale
During Rolling (of Steel), by V. I. Miz'min.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Chern. Metal.,
No 6, 1963, pp 96-99,.

HB 6002

Mat & Met
Oct 63

345,184

Röntgenographic and Fractographic Investigation
of Steel Destruction, by V. M. Finkel, P. I. Krotenok,
et al, 10 pp.

RUSSIAN, per, IE Vyssh Ucheb Zaved Chern
Metall, No 6, 1963, pp 130-137. 3697294
FTD-TT-65-19

Sci-M/M
Jul 65

282,761

Measuring the Velocity of Convection Currents
of Liquid Metal by Means of Water Models, by
A. D. Akinenko.

RUSSIAN, per, Izvest. VUZ- Chern Met., No 6,
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IIB 6821

Sci - BWA
Aug. 67

338,345

of Coal, by A. N. Pokhvisnev, A. N. Spektor,

RUSSIAN, per, Iz Vysshikh Ucheb Zaved Chern
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HB 6065

Sci-M/N

Dec 63

243,931

Development of Charge Conveying Systems in Blast-Furnace
Plants, by V. K. Gruzinov, V. V. Petrovskii.
RUSSIAN, per. Iz Vysshikh Ucheb Zavod Chern Met, No 7,
1963, pp 39-46.

HB 1226068

Sci - M/M

Mar 64

250,801

The Oxidation of Sulfur in the Basic Oxygen Process,
by K. Looze, G. N. Oks.
RUSSIAN, per, Iz Vysshikh Ucheb Zaved Chern
Metal, No 7, 1963, pp 70-78.
HB 6100

Sci - Engr
Oct 64

268,464

INVESTIGATION OF STRESSES WHEN PUSHING A TUBE
THROUGH A DRAW PLATE, BY V. V. SHREYKIN,
V. B. SLAVIN, 14 PP

RUSSIAN, PER, IZVEST VYSSHIKH UCHEB ZAVED. *Chern Metall*
NO 8, 1963, PP 72-81.

JPRS 22441

SCI-MAT & MET
JAN 64

245,091

Investigation of the Temperature-Deformation Rate
Relation for Resistance to Deformation in
Metals and Steels, by L. D. Sokolov.
RUSSIAN, per, Izv. VUZ Chern Met., No 8, 1963,
pp 93-101.
BISI 5827

Sci - Chem
Sept. 67

340,117

Kinetics of the Solution of Carbon and
Recrystallization of Industrial Iron,
by G. K. L'vov, V. I. Motjuzhev.
RUSSIAN, per, Iz VUZ, Chem Met, No 8,
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EISI 3875

Sci-M/M
Apr 65

278,731.

Spinel Brick Tested in the Lining of Basic Oxygen
Furnaces, by A. I. Lyudvinskiy.
RUSSIAN, per, Iz Vysokikh Uchab Zaved Chern Metal,
No 8, 1968, pp 161-163.
HB 6349

Sci - Engr
NOV 64

268,497

Kinetics of the Reduction of Iron Oxides by Mixtures
of Carbon Monoxide and Hydrogen, by T. P. Kurzina,
S. I. Filippov.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Chern Met,
No 9, 1963, pp 5-10.
HB 6104

Sci 1 M/M
Apr 64

255,953

**Desulfurization of Pig Iron Outside the Blast Furnace by
Reduction of Magnesium Oxide With Aluminum, by M. A. Rabkin,
et al.
RUSSIAN, per, Iz Vysishikh Ucheb Zaved Chern Met, No 9, 1963,
pp 28-32.**

HB 6103

Sci - M/M

Mar 64

250,792

Automatic Control of the Periods of Charging and
Heating-Up in the Open-Hearth Process, by
G. D. Surguchev, et al.
RUSSIAN, Iz Vysishikh Ucheb Zaved, Chern Met,
No 9, 1963, pp 39-44.
HB 6106

Sci - Engr
May 64

258,345

Determination of the Deoxidizing ~~EC~~ Power of Elements
by the EMF Method, by V. P. Luzgin, A. F. Vishkarev,
et al.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved Chern Met,
No 9, 1963, pp 50-54.

HB6098

Sci - M/M
Apr 64

255,961

Primary Structure of Continuously Cast Rim-
med-Steel Billets, by YE V. B. Gankin, et. al.

RUSSIAN, per, Izvest VUZ, Chern Met, No 9,
1963, pp 62-69.

HB 6105

Sci-M/M
Jan 64

246,372

Investigation of Temperature Fields in An Electroslag Ingot,
by V. V. Pante, M. M. Klyayev, et al, 7 pp.
RUSSIAN, per, Izvest Vysish Ushab Zavod, Chern Metal, No 9,
1963, pp 77-82. (Table of Contents)

JPRS 23089

Sci-M/M
Feb 64

248, 176

Some Thermal Engineering Problems of Ingot Solidification in
Electroslag Remelting, by V. V. Panin, Ye. I. Molchanov, et al,
11 pp.

RUSSIAN, per, Izvest Vyssh Ucheb Zaved. Chern Metal, No 9,
1963, pp 83-87. (Table of Contents)

Sci-M/M
Feb 64

JPRS 23089

248, 177

High-Temperature Deformation of Refractory Metals, by
V. L. Orzhakovskiy, I. M. Pavlov, et al, 7 pp. ✓
RUSSIAN, per. Izvesti Vysish Ucheb Zaved Chern Metal, No 9,
1963, pp 88-91. (Table of Contents)

JPRS 23121

Sci-M/M
Feb 64

248, 483

Analysis of Condition Related to High-Temperature
Deformation of High-Melting Metals, by
V. L. Orzhekhovskiy, I. M. Pavlov, 7 pp.
RUSSIAN, per, Iz Vyssh Ucheb Zaved, Chernaya
Metall, No 9, 1963, pp 88-91. 9695905
FTD-TT-64-595

Sci - M/M
Feb 65

274,068

Effect of Inoculants on the Viscosity of
Liquid Steels, by N. S. Krushchianovskiy,
M. F. Sidorenko.

RUSSIAN, per, Izvest. VUZ Chem. Met.
No 9, 1963, pp 142-144.

IS 6819

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Mar 66

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Stacking Faults in Pure Cobalt and Cobalt
Iron Alloys, by Y. D. Vishnyakov, et al.
RUSSIAN, per, Investiya ANSSER, VUZ,
Chern Met., 1963, Vol 6, No 9, pp 145-149.
NLI 5828.4 1964 (5508) (On Loan)

Aug 65

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N. G. Shul'ga

*Dilatometric study of phase transformations in
High-chromium steels. 8 pp.*

*RUSSIAN, Izvestiya VUZ. Chernaya metallurgiya, No 9,
1963, pp 156-160*

AIR/FTD-MT-24-1422-71

oat 72

Characteristics of Phase Transformations in
Deformed Ferrous Alloys with High-speed Electric
Heating, by V. N. Gridnev. T. T. Charepin.

RUSSIAN, per, Izv VUZ Chern Metal, No 2, 1963,

pp. 169-73.

NLL Ref: 5809.95 (T.6108)

Sci-Materials

July 69

288 275

Use of the Thermo-Electromotive Force Method
for Studying the Temper Brittleness of Steel,
by A. P. Shadrunkova.

RUSSIAN, per, Izv VUZ Chern Met, No 10,
1963, pp 109-112.

BISI 5966

Sci/Mat
Dec 68

354,440

Thermodynamic Calculations of Certain Reactions
Taking Place During the Settling Out of Titanium
Carbide From Gaseous Phase, by V. P. Yelyutin,
G. I. Pepelkin, 8 pp.
RUSSIAN, per, Iz Vysch Ucheb Zaved, Chernaya
Metall, No 11, 1963, pp 5-10. 9696267
FTD-TT-64-933

Sci - M/M
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Characteristics of the State of Liquid Metals,
by L. A. Pronin, S. I. Filippov, 6 pp.
RUSSIAN, per. Izvestiya Vysshikh Uchebnykh
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pp 11-16.
AIR/FTS/IT-23-1301-67

Sci-Mat
Nov 68

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Interaction ~~Between~~ Between the Liquid and Solid Phases
in the Pelletizing of Iron Ores and Concentrates,
by V. L. Korotich.
RUSSIAN, Iz Vysishikh Ucheb Zaved, Chern Met,
No 11, 1963, pp 22-29.
HB 6156

Sci - Phys
May 64

258,344

Nature of Brown Fumes Formed During the Blowing
of Oxygen Through Metal, by M. F. K. Mikhail.
RUSSIAN, per, Izv. VUZ Cher. Met., Vol 11, 1963,
pp 37-41. *hc*
BISI 5242

Sci/Mat
Mar 68

351,016

Calculation of Turbulent Flow in the
Working Chambers of Furnaces, by
V. I. Mikkalinnyi.
RUSSIAN, per, Izv. VUZ-Chem. Set,
No 11, 1963, pp 200-206.
BISI 4385

Sci/1111
Oct 65

290,498

Study of Pig Iron From the Combined Lining of Blast-
Furnace Hearth Pad and Hearth, by L. M. Galemin,
C. I. Ivanov.

RUSSIAN, per, Iz Vysishikh Ucheb Zaved, Chern Met,
No 12, 1963, pp 28-34.
HB 6154

Sci - Engr
May 64

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Structure of a Capped Ingot of
Running Steel, by R. Z. Elmelakh.
RUSSIAN, per, Izv. VUZ Chern. Met.,
No 12, 1963, pp 45-53.
BISI 4034

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Sci/1141
May 65

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Efficient Relationships between the Rates of
Bite and Discharge, Acceleration and Retardation
during Rolling in Reversing Mills, by N. I. Baimov.
RUSSIAN, per, Izv VUZ Chern Met, No 12, 1963,
pp 90-98.
BISI 7338

Sci/Materials
Jun 69

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Calculation of the Durability of Rolls
With a Circular Groove, by

A. A. Nefedov, Yu. S. Postol'nik.

RUSSIAN, per, Izv. VUZ-Chem. Met.
No 12, 1963, pp 118-125.

ISI 3965

Sci/Met:
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